

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D125E-7*
 Type.....Water-cooled, 4-cycle
 Aspiration.....Turbo-charged, after-cooled, cooled EGR
 Number of cylinders..... 6
 Bore.....125 mm **4.92"**
 Stroke.....150 mm **5.91"**
 Piston displacement..... 11.0 ltr **671 in³**
 Horsepower:
 SAE J1995.....Gross 248 kW **332 HP**
 ISO 9249 / SAE J1349.....Net 242 kW **324 HP**
 Rated rpm.....2000 rpm
 Fan drive type.....Hydraulic driven
 Maximum torque.....171 kg•m **1,237 ft lbs**
 Fuel system.....Direct injection
 Governor.....Electronically controlled
 Lubrication system:
 Method.....Gear pump, force-lubrication
 Filter.....Full-flow type
 Air cleaner.....Dry type with double elements and
 precleaner, plus dust indicator

*EPA Tier 4 Final emissions certified



TRANSMISSION

Torque converter.....3-elements, 1-stage, 2-phase
 Transmission.....Full-automatic, counter-shaft type
 Speed range.....6 speeds forward and 2 reverse
 Lockup clutch.....Wet, single-disk clutch
 Forward.....Torque converter drive in 1st gear,
 direct drive in 1st lockup and all higher gears
 Reverse.....Torque converter drive and direct drive in all gear
 Shift control.....Electronic shift control with automatic
 clutch modulation in all gear
 Maximum travel speed.....58.6 km/h **36.4 mph**



AXLES

Full time all wheel drive with Komatsu Traction Control System (K-TCS)
 Final drive type.....Planetary gear
 Ratios:
 Differential.....3.154
 Planetary.....4.667



SUSPENSION SYSTEM

Front.....Hydro-pneumatic suspension
 Rear.....Combined hydro-pneumatic
 and rubber suspension system



STEERING SYSTEM

Type.....Articulated type, fully hydraulic power steering
 with two double-acting cylinders
 Secondary steering.....Automatically actuated,
 electrically powered
 Standard.....ISO5010, SAE J1511
 Minimum turning radius, wall to wall.....8.10 m **26' 7"**
 Articulation angle.....45° each direction



CAB

Standard.....ISO3449 (FOPS)
 ISO3471 (ROPS)



BRAKES

Service brakes.....Full-hydraulic control, oil-cooled
 multiple-disc type on front and center axles
 Standard.....ISO3450
 Parking brake.....Spring applied, caliper disc type
 Retarder.....Front and center axle brakes act as retarder



MAIN FRAME

Type.....Articulated type, box-sectioned
 construction on front and rear
 Connected by strong torque tubes.



BODY

Capacity:
 Struck.....13.4 m³ **17.5 yd³**
 Heaped (2:1, SAE).....17.1 m³ **22.4 yd³**
 Payload.....28.0 metric tons **30.9 U.S. tons**
 Material.....130 kg/mm² **184,925 psi**
 high tensile strength steel
 Material thickness:
 Bottom.....14 mm **0.55"**
 Front.....8 mm **0.31"**
 Sides.....12 mm **0.47"**
 Target area
 (inside length x width) .. 5250 mm x 2685 mm **17' 3" x 8' 10"**
 Heating.....Exhaust heating (option)



HYDRAULIC SYSTEM

Hoist cylinder.....Twin, telescopic type
 Relief pressure.....30.4 MPa 310 kg/cm² **4,409 psi**
 Hoist time.....10.5 sec



WEIGHT (APPROXIMATE)

Empty weight.....25,395 kg **55,986 lbs**
 Gross vehicle weight.....53,475 kg **117,892 lbs**
 Weight distribution:
 Empty: Front axle.....58.9%
 Center axle.....22.5%
 Rear axle.....18.6%
 Loaded: Front axle.....30.8%
 Center axle.....36.0%
 Rear axle.....33.2%



TIRES

Standard tire.....23.5 R25



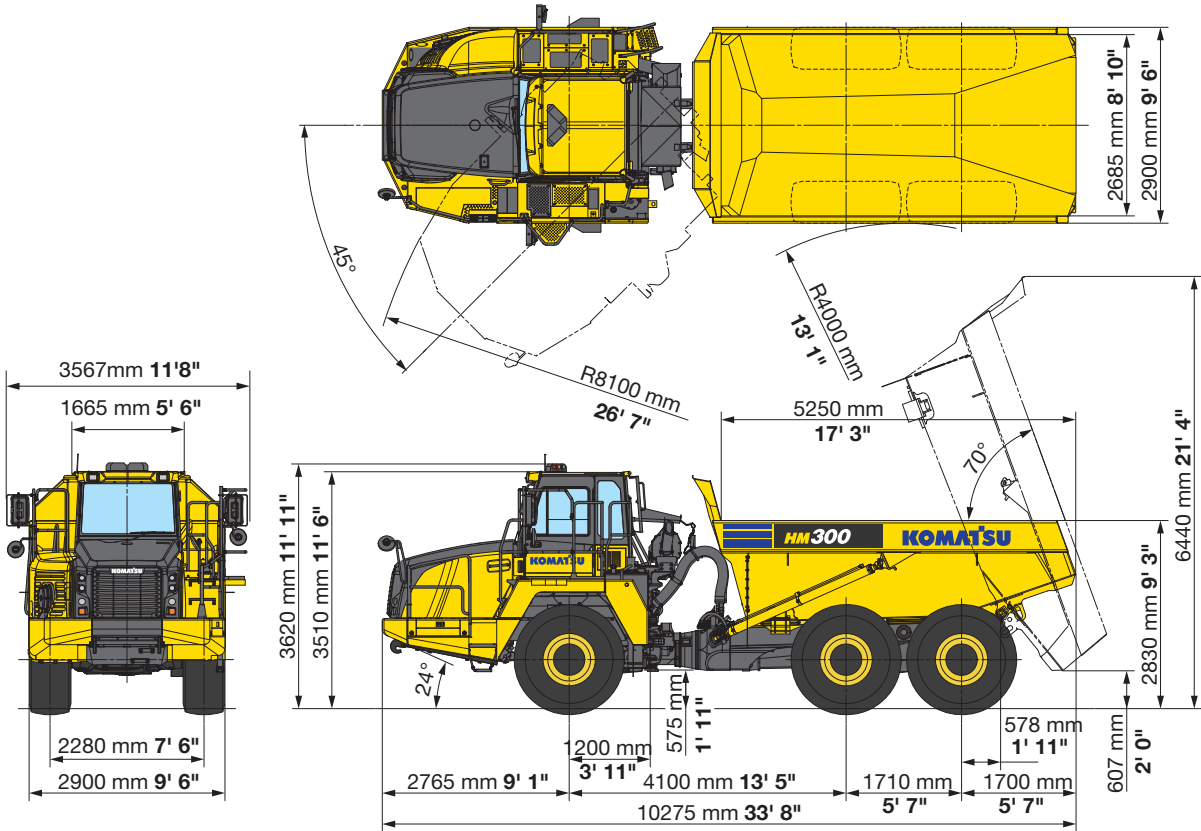
SERVICE REFILL CAPACITIES

Fuel tank.....388 ltr **102.5 U.S. gal**
 DEF tank.....32.8 ltr **8.7 U.S. gal**
 Engine oil.....35 ltr **9.2 U.S. gal**
 Torque converter, transmission and
 retarder cooling.....80 ltr **21.1 U.S. gal**
 Differentials (total).....71.5 ltr **18.9 U.S. gal**
 Final drives (total).....23 ltr **6.1 U.S. gal**
 Hydraulic system.....103 ltr **27.2 U.S. gal**
 Suspension (total).....10.4 ltr **2.7 U.S. gal**

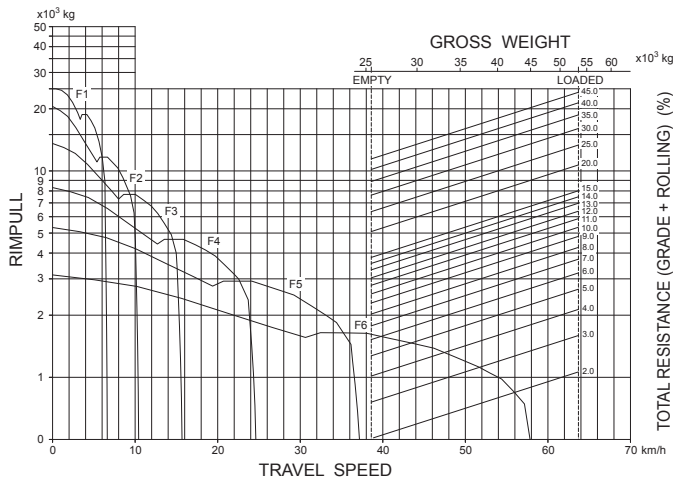
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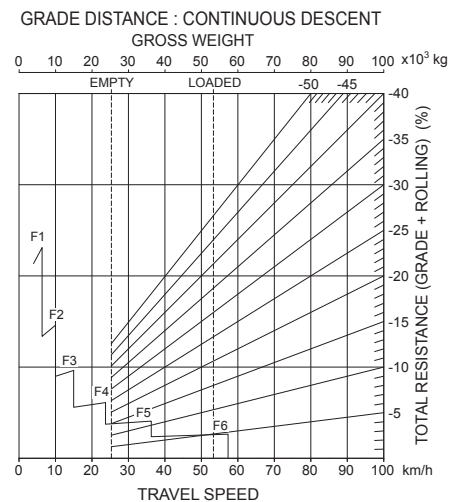
DIMENSIONS



TRAVEL PERFORMANCE (Power mode)



BRAKE PERFORMANCE



EQUIPMENT



STANDARD EQUIPMENT FOR BASE MACHINE

ENGINE AND RELATED COMPONENTS

- Alternator, 90 amp, 24 volt
- Air cleaner, dry type with double elements, precleaner, dust indicator
- Batteries 2x12 volt, 200 Ah
- Battery disconnect switch
- Electronic priming fuel pump
- Engine, Komatsu SAA6D125E-7, 11.0 L displacement direct injection system, Komatsu variable geometry turbocharger, aftercooled, EPA Tier 4 Final emission
Gross HP: 333 HP (248 kW) / 2000 RPM
Net HP: 325 HP (242 kW) / 2000 RPM
- Full-automatic F6 R2 Transmission with K-ATOMIC shift control with automatic T/C lock-up
- Hydraulic driven cooling fan, for after-cooler
- Hydraulic driven cooling fan, for radiator
- Komatsu diesel particulate filter (KDPF)
- Selective catalytic reduction (SCR) system
- Starting motor, 7.5 kW
- Two mode engine power system (Economy and Power modes)

OPERATOR ENVIRONMENT

- ROPS cab w/FOPS, Level 2 (73 dBA), with viscous mounts support
- 12 volt outlet port
- Air conditioner/heater/defroster, electronically controlled
- Ashtray and 12 volt cigarette lighter
- Cup holder
- Electronic hoist control system
- Floor mat
- Radio AM/FM with auxiliary jack
- Rear window guard
- Seat belt, operator's, 3 point, 3" width lap belt, 2" width shoulder belt, retractable
- Seat, air suspension, heated, reclining (fabric)
- Seat, passenger's, with 3" seat belt
- Secondary engine stop switch
- Tilt and telescopic steering wheel
- Tilt cab arrangement for easy service
- Window, power type, left side
- Window, sliding, right side
- Windshield washer and wiper (front and rear)

LIGHTING SYSTEM

- Back-up light
- Hazard light system
- Headlights, front
- Stop, tail, and turn signal lights, LED
- Working lights, front and side

MONITORING SYSTEM, LCD DISPLAY

- Main Monitor Display
 - Clock
 - DEF level gauge
 - Ecology gauge
 - Engine coolant temperature
 - Engine power mode
 - Fuel consumption
 - Fuel level gauge
 - Odometer
 - Payload display
 - Retarder oil temperature
 - Service meter reading (hour meter)
 - Speedometer
 - Tachometer
 - Torque converter oil temperature
 - Transmission shift lever indicator
- Pilot Lights
 - Action level monitor
 - Auxiliary steering system
 - Brake oil pressure
 - Dump body float
 - Engine preheat
 - Hydraulic fan reverse
 - Inter-axle differential lock-up
 - KDPF Regeneration
 - KTCS
 - Message indicator for cautions
 - Parking brake
 - Retarder
 - Seat belt caution
 - Shift hold
 - Transmission lock-up
 - Transmission range indicator
 - Turn signal

OTHER STANDARD EQUIPMENT

- Anchor points, tie off type (ISO 14567)
- Auxiliary steering system, automatic, electric
- Back-up alarm
- Centralized greasing
- Dump counter for body
- Electric pump for hydraulic tilt cab
- Hand rails for platform and ladder
- Heavy duty transmission guard
- Horn, electric
- Hydropneumatic suspension, front and rear
- Interaxle lockup, wet disc clutch type, controlled by KTCS
- Komatsu Traction Control System (KTCS)
- Komtrax Level 5
- Ladders, LH side
- Payload meter with external display lamp
- Provision for tailgate installation
- Rearview Camera with dedicated in cab monitor
- Rearview mirrors, heated, LH and RH
- Retarder, automatic and manual
- Rims for 23.5 x 25 tires (set of 6)
- Underview mirrors, front



OPTIONAL EQUIPMENT

- 23.5R25 Bridgestone tires (set of 6)
- 23.5R25 Michelin tires (set of 6)
- 750/65R25 Bridgestone tires (set of 6)
- Body heat conversion field kit
- Dump Body 22.4 yd³ (17.1 m³) SAE 2:1 heaped, unlined floor, with exhaust heating channels
- KOMTRAX satellite field kit
- Provision for exhaust heating
- Rims for 750/65R25 tires (set of 6)
- Tailgate, scissors type